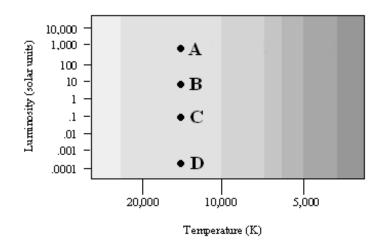
## Astronomy Ranking Task: Luminosity of Stars

## Exercise #3

**Description:** Consider the Hertzsprung-Russell (HR) diagram shown below which relates the luminosity (in solar units) to the temperature for four stars (A - D).



<b>A. Ranking instructions:</b> Rank the temperature of the stars $(A - D)$ from hottest to coldest.
Ranking Order: Hottest 1 2 3 4 Coldest
Or, all the stars have the same temperature (indicate with a check mark)
Carefully explain your reasoning for ranking this way:
<b>B. Ranking instructions:</b> Rank the luminosity of the stars (A – D) from greatest (brightest) t least (dimmest).
<b>Ranking Order:</b> Greatest 1 2 3 4 Least
Or, all the stars have the same luminosity (indicate with a check mark)

C. Ranking instructions: Rank the surface area of the stars (A – D) from smallest to Ranking Order: Smallest 1 2 3 4 Largest  Or, all the stars have the same surface area (indicate with a check mark)	Carefully explain your reasoning for ranking this way:
C. Ranking instructions: Rank the surface area of the stars (A – D) from smallest to Ranking Order: Smallest 1 2 3 4 Largest	
<b>Ranking Order:</b> Smallest 1 2 3 4 Largest	
	C. Ranking instructions: Rank the surface area of the stars $(A - D)$ from smallest to
Or, all the stars have the same surface area (indicate with a check mark)	Ranking Order: Smallest 1 2 3 4 Largest
	Or, all the stars have the same surface area (indicate with a check mark)
Carefully explain your reasoning for ranking this way:	Carefully explain your reasoning for ranking this way: